F & W CO

PRICE LIST

TOP RETURN FLUE WARM AIR FURNACES

COMBINATION WARM AIR AND HOT WATER HEATERS.

HOT WATER AND STEAM HEATERS.

FULLER & WARREN CO.

TROY, N.Y.

CHICAGO · CLEVELAND · MILWAUKEE · BOSTON · NEW YORK

TD CAT 1890 Fuller & Warren Co.

ATHENAEUM OF PHILADELPHIA

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FULLER & WARREN CO.

Steam Heating & Hot Water Circulation

WARM AIR FURNACES.

TROY.
CHICAGO · MILWAUKEE
NEW YORK · BOSTON

F&W CO. CELEBRATED STOVES FURNACES & RANGES

FOR INFORMATION
Apply to Your Steam Fitter
OR STOVE DEALER

Or Send for Illustrated Pamphlet mailed Free.

WARM AIR FURNACES.

FOR HEATING AND VENTILATION.

WE desire to call your attention to our line of Warm Air Furnaces, consisting of a great variety of styles and sizes, suitable for warming all buildings. With more than fifty years' experience as heating and ventilating engineers, we feel justly entitled to a knowledge of the requirements of the public in this respect. We have a larger capital invested than any other furnace manufacturers in the world, and, while endeavoring to give low prices, our special effort has always been to make the *best* Furnaces in the market. Our success in this endeavor is demonstrated by the fact that more than 100,000 of our Furnaces are now in use, and thousands of voluntary letters, received from all parts of the country, assure us that they are giving perfect satisfaction. The prices of our different Furnaces are so graded as to satisfy all purchasers, and the reputation our goods have always borne is an assurance that every apparatus is an honest one. A condensed description, with cuts of our Furnaces, may be found on the following pages. We shall be pleased to mail our large illustrated catalogue, and will quote special discounts on Furnace price list to the trade on application. Correspondence solicited.

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Fuller

ALL STOVES FURNACES RANGES
BEARING THE NAME
FULLER & WARREN CO.
ARE GUARANTEED
OF THE BEST MATERIALS
PERFECT IN WORKMANSHIP
FINISH & OPERATION

FULLER & WARREN COMPANY

TOP RETURN FLUE FURNACE,

IS constructed on thorough scientific principles, combining every point of superiority and excellence, some of which we enumerate: it is absolutely gas tight and has fewer joints than any cast iron heater made, and these joints are thoroughly protected by packing with a cement, manufactured exclusively by us, which becomes after a time a part of the iron itself; it is self-cleaning, there being no angles to accumulate ashes or soot, such obstructions being either consumed or disposed of, as they must fall directly into the fire pot; its construction insures perfect combustion, the size and shape of combustion chamber, fire pot, radiator, flues and all other measurements, being modeled upon scientific principles which a long and careful study of the laws governing these matters has proved to be correct; the grate is made with a slide center and can be thoroughly cleaned without opening a door; can also be furnished with triangular grate; the ash pit is of unusual capacity; the feed door will be found to be also extra large and wide, and of proper height for convenience; the arrangement of the grate and dust flue is such that no ashes or dust can escape, for when the anti-clinker door is open the dust damper or slide is also open and all fine dust or ashes as they may arise are drawn off through this opening; all parts exposed to the direct action of the heat are made very heavy; the flue construction of this furnace is such that the products of combustion act at once directly and with great force upon all parts of the radiating surface; the different parts of the radiating surface are brought in as close contact with the fire as it is possible to do and still secure perfect combustion. This point is very generally neglected in the construction of furnaces, and although there may be a large area of surface, it oftentimes is of but little benefit. It has no equal for durability, economy, convenience and all other points that constitute *a first-class heating apparatus.*

PORTABLE FORM.

No.	Code Word.		Price List.	
	Castings.	Galvanized Iron Casings.	Castings.	Galvanized Iron Casings.
225	Diorama	Dissolve	$175 00	$28 00
245	Diploma	Distant	218 00	30 00
265	Direct	Distinct	250 00	42 00
285	Discourse	Distort	312 00	45 00
300	Dimple	Dispute	437 00	58 00
350	Dingle	Dissent	487 00	58 00

BRICK FORM.

No.	Code Word.		List Price.	
	Castings.	Covering Bars, per set.	Castings.	Cover'g Bars, per set.
220	Divan	Dominion	$175 00	$11 25
240	Diverge	Donation	218 00	11 25
260	Divide	Donor	250 00	12 50
280	Divulge	Dorado	312 00	15 00
300	Docket	Dorsal	437 00	17 50
350	Document	Doublet	487 00	17 50

When ordering by code word, advise whether Furnace is wanted with triangular or slide center grate.

F&W Co. CELEBRATED STOVES FURNACES & RANGES

FULLER & WARREN COMPANY

TOP RETURN FLUE FURNACE.

FOR HARD OR SOFT COAL.

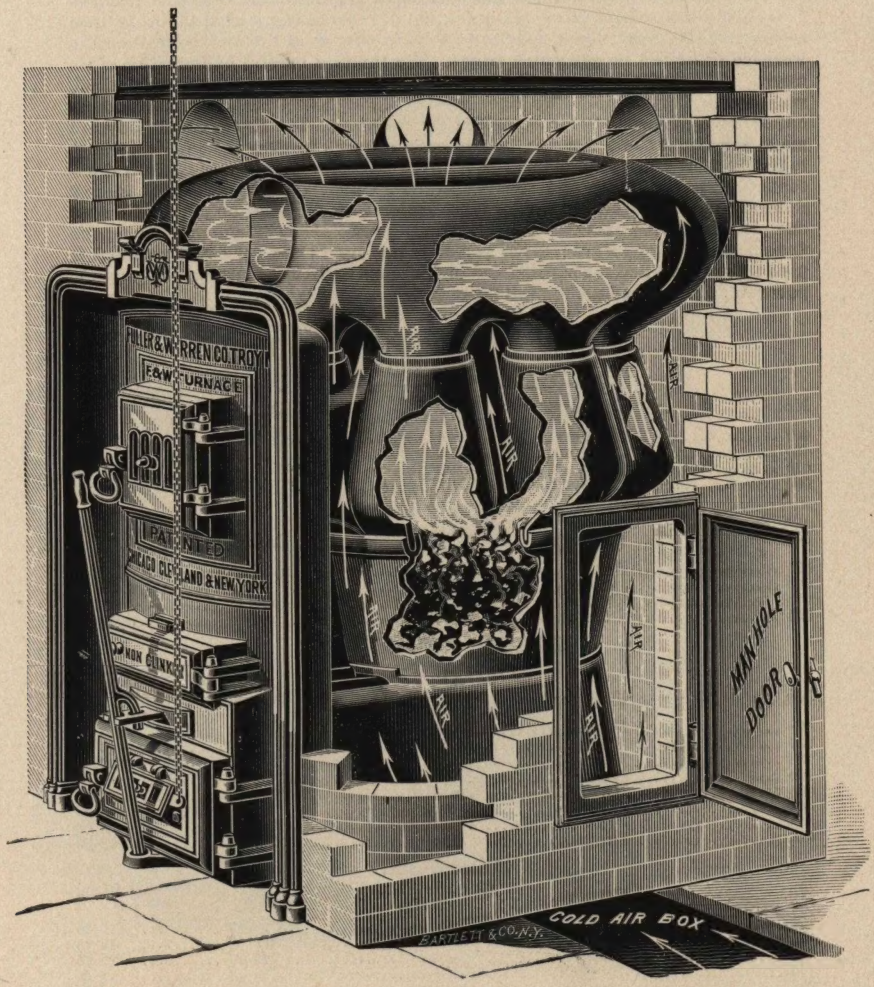
Portable form..... Nos. 225, 245, 265, 285, 300, 350

For code word see folio 3.

ALL STOVES FURNACES & RANGES BEARING THE NAME OF FULLER & WARREN CO ARE GUARANTEED OF THE BEST MATERIAL PERFECT IN WORKMANSHIP FINISH & OPERATION

FULLER & WARREN COMPANY

TOP RETURN FLUE FURNACE.



FOR HARD OR SOFT COAL.

Brick form ..... Nos. 220, 240, 260, 280, 300, 350

For code word see folio 3.

FULLER & WARREN COMPANY

TOP RETURN FLUE FURNACE,

WITH CAST OR STEEL RADIATOR.

IN the construction of this Furnace we have combined all desirable features requisite in making a powerful, quick and durable heater, and at the same time so simplified its construction as to enable us to offer it at a lower price than the Furnace described on preceding pages. We invite a careful examination of its merits. The radiator is made of heavy cast iron or sheet steel, as may be desired, with double flanged radiating pipes passing through it, which, together with its outside face, gives a very large surface for radiation. The fire pot and body are made very heavy and durable, and in such form as to give the greatest direct radiation that can be obtained. It is fitted with our patent anti-clinker, draw center, vibrating dump and shaking grate, so popular and successful in our Splendid and Stewart Stoves. The large anti-clinker door has an automatic dust damper, preventing dust or fine ashes from escaping when shaking or clearing the fire chamber. These Furnaces are perfectly gas tight; the very best material is used throughout, and are constructed in our usual first-class manner, being quick, powerful, durable and economical heaters.

CAST RADIATOR.

Portable Form.

No.	CODE WORD. Castings.	CODE WORD. Galvanized Iron Casings.	PRICE LIST. Castings.	PRICE LIST. Galvanized Iron Casings.
405	Drachm	Dualist	$125 00	$28 00
465	Dragon	Duchess	150 00	36 00
515	Drain	Ductile	187 50	42 00
565	Drapery	Dunlop	225 00	45 00

Brick Form.

No.	Castings.	Covering Bars, per set.	Castings.	Cover'g Bars, per set.
365	Drawn	Duplex	$137 50	$11 25
425	Dream	Durable	162 50	11 25
475	Drench	Dynamic	200 00	12 50
525	Dresser	Dynasty	237 50	15 00

STEEL RADIATOR.

Portable Form.

No.	Furnace.	Galvanized Iron Casings.	Furnace.	Galvanized Iron Casings.
128	Eager	Eccentric	$ 82 50	$23 00
132	Eagle	Echelon	95 00	24 00
136	Earl	Echo	112 50	27 00
140	Earnest	Eclat	137 50	28 00
405	Drawable	Dualist	137 50	28 00
465	Drawing	Duchess	162 50	36 00
515	Dray	Ductile	200 00	42 00
565	Drazel	Dunlop	237 00	45 00

Brick Form.

No.	Furnace.	Covering Bars, per set.	Furnace.	Cover'g Bars, per set.
128	Earth	Eclipse	$ 95 00	$11 25
132	Easel	Economic	107 50	11 25
136	Easter	Ecstacy	125 00	11 25
140	Ebony	Edifice	150 00	11 25
365	Drosky	Duplex	150 00	11 25
425	Drug	Durable	175 00	11 25
475	Druid	Dynamic	212 50	12 50
525	Drum	Dynasty	250 00	15 00

When ordering by code word, advise whether Furnace is wanted with triangular or slide center grate.

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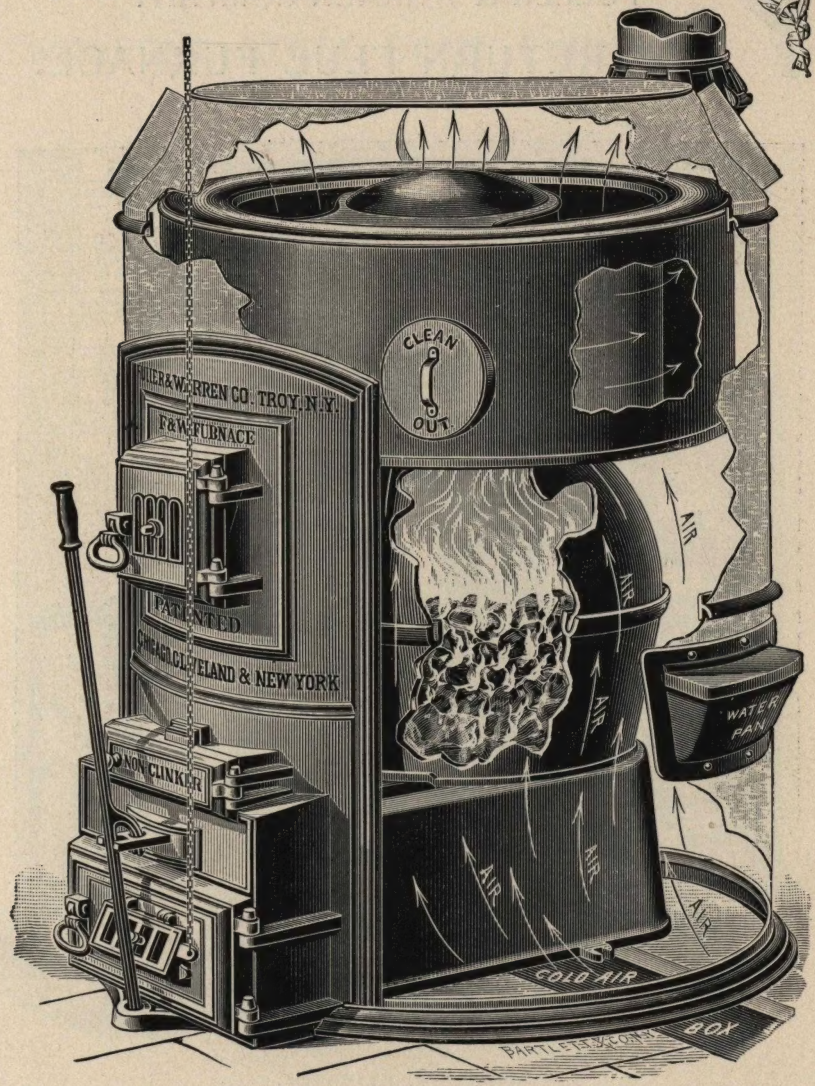
FULLER & WARREN COMPANY

TOP RETURN FLUE FURNACE.



WITH STEEL RADIATOR.

FOR HARD OR SOFT COAL.

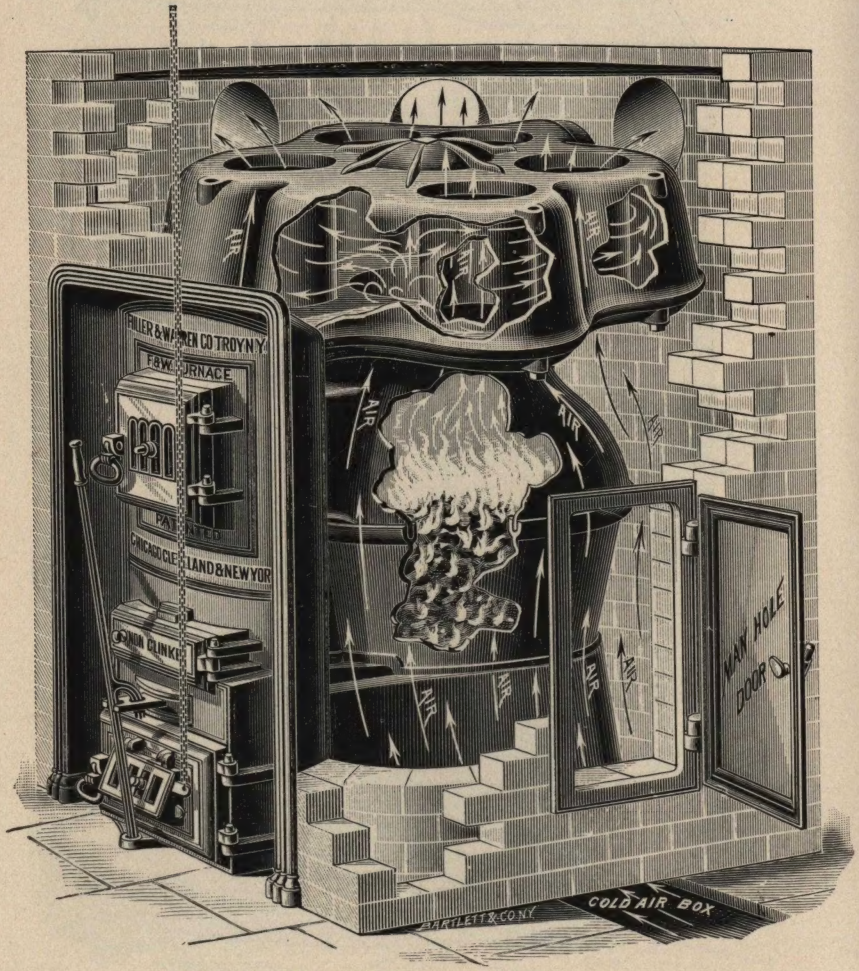
Portable form..... Nos. 128, 132, 136, 140, 405, 465, 515, 565
Brick form..... Nos. 128, 132, 136, 140, 365, 425, 475, 525

For code word, see folio 6.

F&W Co CELEBRATED STOVES & FURNACES & RANGES

FULLER & WARREN COMPANY

TOP RETURN FLUE FURNACE.

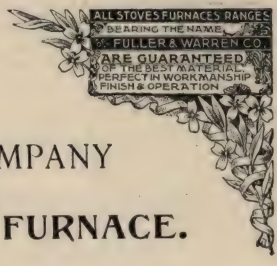


WITH CAST RADIATOR.

FOR HARD OR SOFT COAL.

Portable form ..... Nos. 405, 465, 515, 565
Brick form ..... Nos. 365, 425, 475, 525

For code word, see folio 6.



FULLER & WARREN COMPANY

WROUGHT STEEL DOME FURNACE.

THIS series of Furnace is made to meet requirements for a strong, quick operating heater, with direct radiation from steel combustion chamber.

They are constructed in the most thorough and substantial manner of the very best material. The radiator is of extra heavy, fine quality wrought steel, and is made with return flue, so that the greatest possible return in heat is secured from amount of fuel consumed. In its construction great care is used to make it thoroughly gas tight, and all joints are most perfectly fitted.

The same form of fire pot, grate, dust flue, doors, dampers and ash pit are embodied in this as in all the Fuller & Warren Company Furnaces, which insures perfection in these very essential details.

The large combustion chamber and extra large flues make this series of Furnaces *especially adapted to the use of bituminous coal.*

Can be furnished with either triangular or slide center grate.

PORTABLE FORM.

Revertible Flue.

No.	Code Word. Castings.	Code Word. Galvanized Iron Casings.	Price List. Castings.	Price List. Galvanized Iron Casings.
271	Emersed	Eminence	$137 50	$28 00
330	Emersion	Emissary	175 00	36 00
380	Emigrant	Emit	212 50	42 00
430	Emigration	Emotion	250 00	45 00

Direct Draft.

No.	Castings.	Galvanized Iron Casings.	Castings.	Galvanized Iron Casings.
271	Edition	Emanate	$125 00	$28 00
330	Educate	Embark	162 50	36 00
380	Effect	Embassy	200 00	42 00
430	Effort	Embellish	237 50	45 00

BRICK FORM.

Revertible Flue.

No.	Castings.	Covering Bars, per set.	Castings.	Cover'g Bars, per set.
227	Elevate	Ember	$150 00	$11 25
233	Elixir	Emblem	187 50	11 25
238	Elipse	Emerald	225 00	12 50
243	Eloquent	Emeritus	262 50	15 00

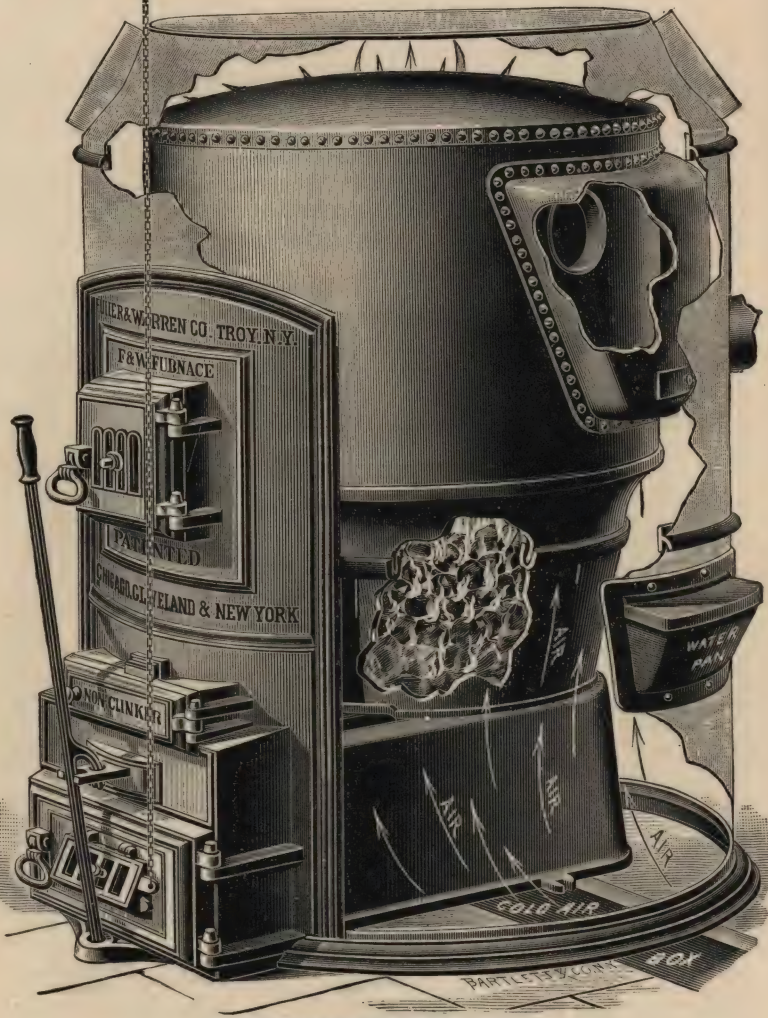
Direct Draft.

No.	Castings.	Covering Bars, per set.	Castings.	Cover'g Bars, per set.
227	Elder	Ember	$137 50	$11 25
233	Elect	Emblem	175 00	11 25
238	Elegant	Emerald	212 50	12 50
243	Element	Emeritus	250 00	15 00

When ordering by code word, advise whether Furnace is wanted with triangular or slide center grate.

FULLER & WARREN COMPANY

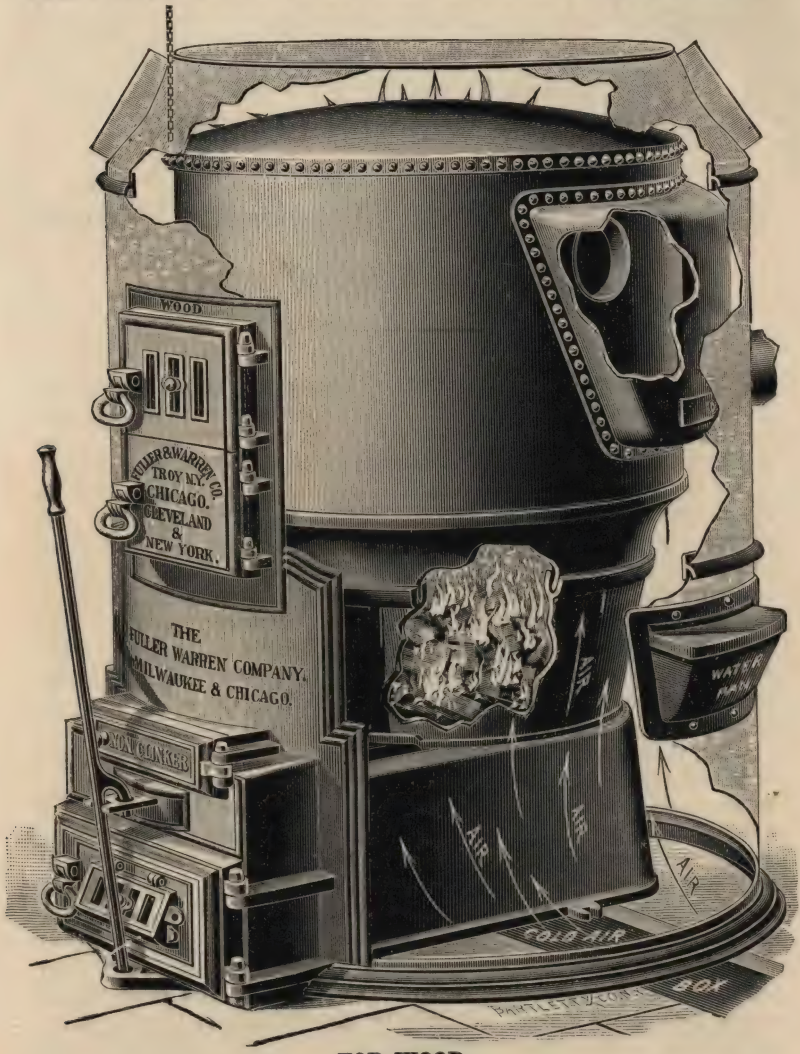
Return Flue, Steel Dome Furnace.



FOR HARD OR SOFT COAL.

Portable form	Nos. 271, 330, 380, 430
Brick form	Nos. 227, 233, 238, 243

FULLER & WARREN COMPANY
RETURN FLUE, STEEL DOME FURNACE.



FOR WOOD.

No.	Portable Form. CODE WORD. Castings.	Galvanized Iron Casings.	Brick Form. CODE WORD. Castings.	Covering Bars, per set.
330. Revertible flue....	Modeler	Monologue.....	Moletree.....	Escapade.
380. Revertible flue....	Moderated....	Monotony.....	Monarch	Escort.
430. Revertible flue....	Modern	Monotype.....	Mongolian	Especial.
330. Direct draft.....	Modest.....	Monsieur.....	Monocular	Escapade.
380. Direct draft.....	Modified	Monsters.....	Monogram....	Escort.
430. Direct draft.....	Module.....	Montanic.....	Monolith.....	Especial.

List prices are exactly the same as corresponding size and style of Coal Furnaces.
See page 9.

FULLER & WARREN COMPANY

Top Return Flue, Circulating Room Heater and Ventilator.

IN this Heater we retain the features of economy in fuel, perfect fitting, finish and workmanship, high grade of materials, cleanliness and ease of management of our other celebrated top return flue Furnaces, and combine with them all the advantages of perfect circulation, which, in heating any large apartment that, owing to its situation, can not be warmed by the usual Furnace construction, is the only practical and effective method, for by it the heat is distributed evenly and alike in all and every part of the room. By this construction the cold air which naturally descends to floor, is taken at bottom of Heater, and passing the fire pot and body of Furnace, is drawn or forced upwards through thoroughly gas tight, wrought steel flues of radiator into room direct. Being heated to a high temperature in its transit, it expands and diffuses warm air to all the extreme portions of the room, and continually forces the cold air to floor, from which it is drawn toward and through the Heater. By circulation we derive an evenness of temperature in all parts of the room better than by any other method. Pure, fresh air can be introduced by constructing a fresh air duct, taking the cold air from outside of building, from such a source as insures its purity, and arranging the same so as to allow the fresh air to pass in at bottom of Heater. Excellent ventilation can be secured by means of ventilating register, opening into room near floor, passing to either smoke flue of chimney or direct to outer air, giving proper elevation, so that by its natural tendencies the heated, impure air will be drawn from the room. In this Furnace we have the most powerful room heater made, heating as it does, not only by circulation, but also by direct radiation from top return flue radiator.

The No. 140 Furnace can be furnished with either triangular or slide center grate; the other sizes with draw center grate only.

No.	Code Word. Castings.	Code Word. Russia Iron Casings.	Price List. Castings.	Price List. Russia Iron Casings.
128	Castle	Caustic	$ 84 50	$25 00
132	Casual	Caution	97 00	25 00
136	Cataract	Cavalier	114 50	27 50
140	Caucus	Cavern	139 50	35 00

Lowest ruling prices mailed upon application.

ALL STOVES FURNACES RANGES
BEARING THE NAME
FULLER & WARREN CO.
ARE GUARANTEED
OF THE BEST MATERIAL
PERFECT IN WORKMANSHIP
FINISH & OPERATION

FULLER & WARREN COMPANY

Top Return Flue Circulating or Room Heater.

Four sizes..... Nos. 128, 132, 136, 140

For code word see folio 12.

FULLER & WARREN COMPANY

Top Return Flue "Columbia" Furnace

FOR WOOD.

THE COLUMBIA FURNACE is made entirely of cast iron. The flue construction in this is identical in arrangement with our other well-known Furnaces, and exposes for radiation the greatest possible surface. The fire chamber is lined with heavy cast iron perforated plates, through which air passes to the fire and is thoroughly mixed with smoke and gases, producing the most perfect combustion possible. These perforated plates also serve as a protection to the fire chamber, and when repairs are necessary they can be removed and new pieces adjusted through the feed door.

We make three sizes, either of which can be set in brick or galvanized iron casings. The feed door will admit a LARGE piece of fuel ; the fire chamber is large, and, when filled with fuel and the dampers properly regulated, the fire can be retained for hours without further attention.

It has been thoroughly tested in all parts of the country, and we feel warranted in saying the COLUMBIA IS THE BEST wood Furnace made.

PORTABLE FORM.

No.	CODE WORD. Castings.	CODE WORD. Galvanized Iron Casings.	PRICE LIST. Castings.	PRICE LIST. Galvanized Iron Casings.
3	Endure	Engrave	$219 00	$70 00
4	Energy	Enhance	293 00	75 00
4½	Enervate	Enhance	300 00	75 00

BRICK FORM.

No.	Castings.	Covering Bars, per set.	Castings.	Cover'g Bars, per set.
3	Enforce	Enjoy	$219 00	$17 50
4	Engage	Ensign	293 00	20 50
4½	Engaging	Ensign	300 00	20 50

ALL STOVES FURNACES RANGES
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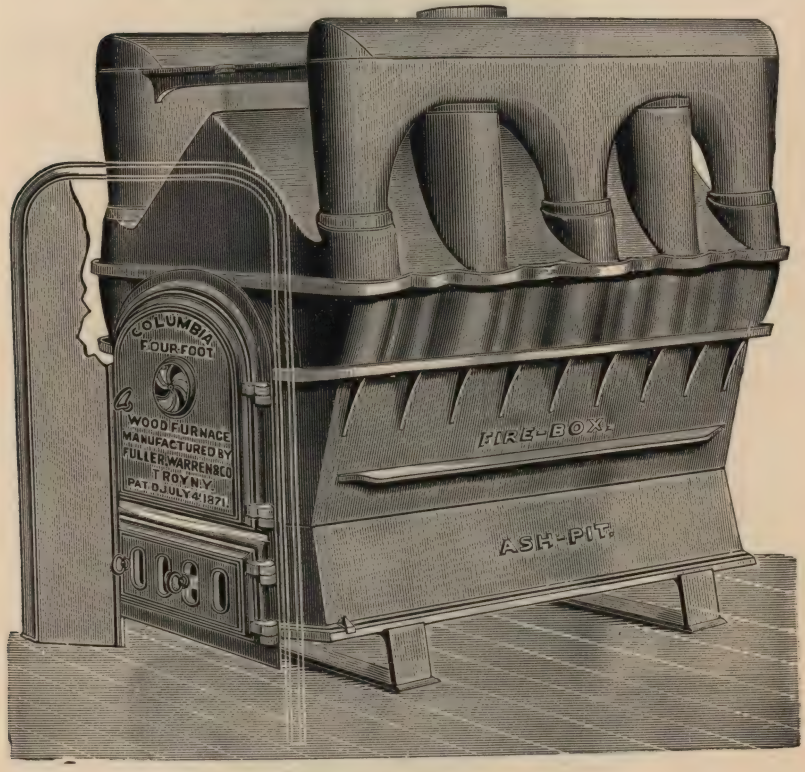
FULLER & WARREN COMPANY

TOP RETURN FLUE FURNACE, THE "COLUMBIA."



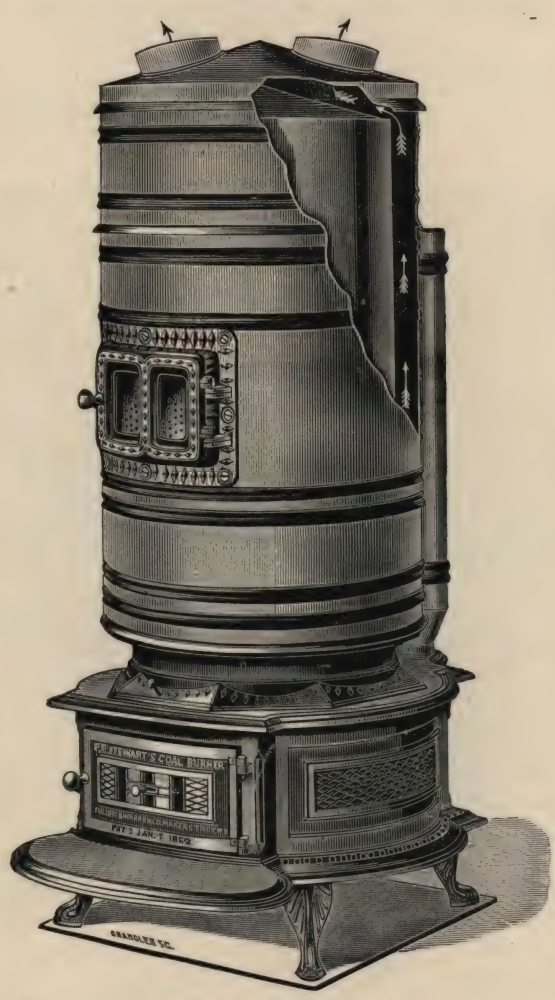
FOR WOOD ONLY.

The numbers indicate the length of fire chamber in feet.

Three sizes ..... No. 3, No. 4, No. 4½

For code word see folio 14.

P. P. STEWART FURNACE.



FOR HARD COAL.

THIS is the original "Stewart" Stove arranged as a Furnace. The name is a sufficient recommendation. They have ample capacity for warming cottages and small dwelling houses.

No.		Code Word.	Price.
4.	Castings	Envoy	$40 00
4.	Mounted with Russia iron casings	Epigram	55 00
7.	Castings	Epic	61 00
7.	Mounted with Russia iron casings	Epilogue	81 00

ALL STOVES FURNACES RANGES
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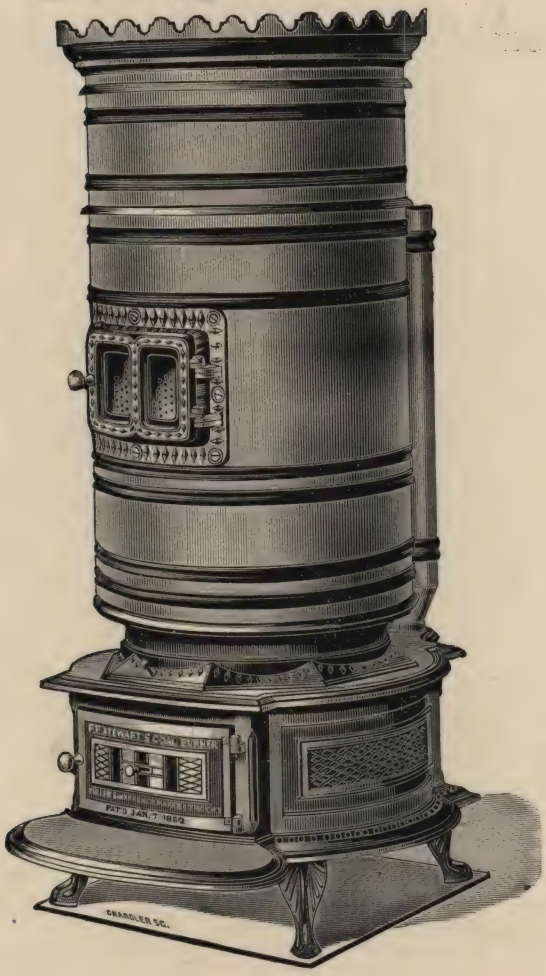
P. P. STEWART

Circulating Room Heater.



FOR HARD COAL.

THIS Heater is the same as the Stewart Furnace, excepting that it warms the room it stands in. Cold air is drawn in at the base, is heated as it passes up between the casings, and discharged into the room. By this constant circulation of air an even temperature is maintained in all parts of the room.

No.		Code Word.	Price List.
4.	Castings	Epithet	$ 40 00
4.	Mounted with Russia iron casings	Epoch	55 00
7.	Castings	Epitome	61 00
7.	Mounted with Russia iron casings	Epulare	81 00

FULLER & WARREN COMPANY

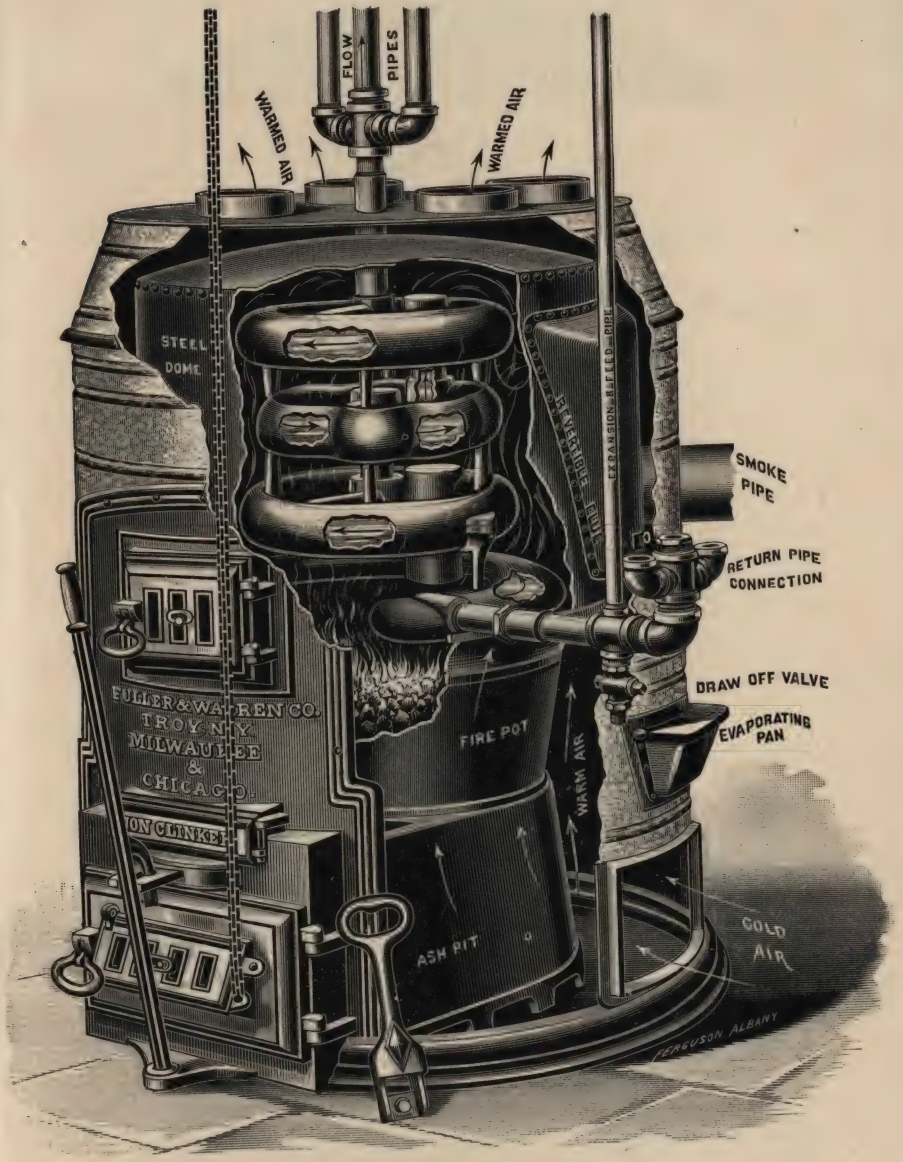
Combination Warm Air and Hot Water Heater.

FOR HARD OR SOFT COAL.

ESPECIALLY adapted for use in buildings in which no provision or convenience has been provided for carrying warm air pipes to upper rooms. By our combination we are enabled to heat the ROOMS ON FIRST FLOOR by WARM AIR, thus securing an abundant supply of fresh air for ventilating and heating purposes, and the UPPER ROOMS are thoroughly warmed BY HOT WATER CIRCULATION. This system of heating has been thoroughly tested. A large number of Furnaces have been sold arranged in this manner, and in every instance they have met the hearty approval of the user and are highly commended for ECONOMY in the use of fuel, CONVENIENCE and the GENIAL WARMTH prevailing throughout all the rooms. One, two, three or four sections of the boiler may be used, according to the amount of space to be warmed. All boilers fitted with 2½-inch flow and return pipes.

Sectional cut of boiler on page 20 fully illustrates the circulation of the water.

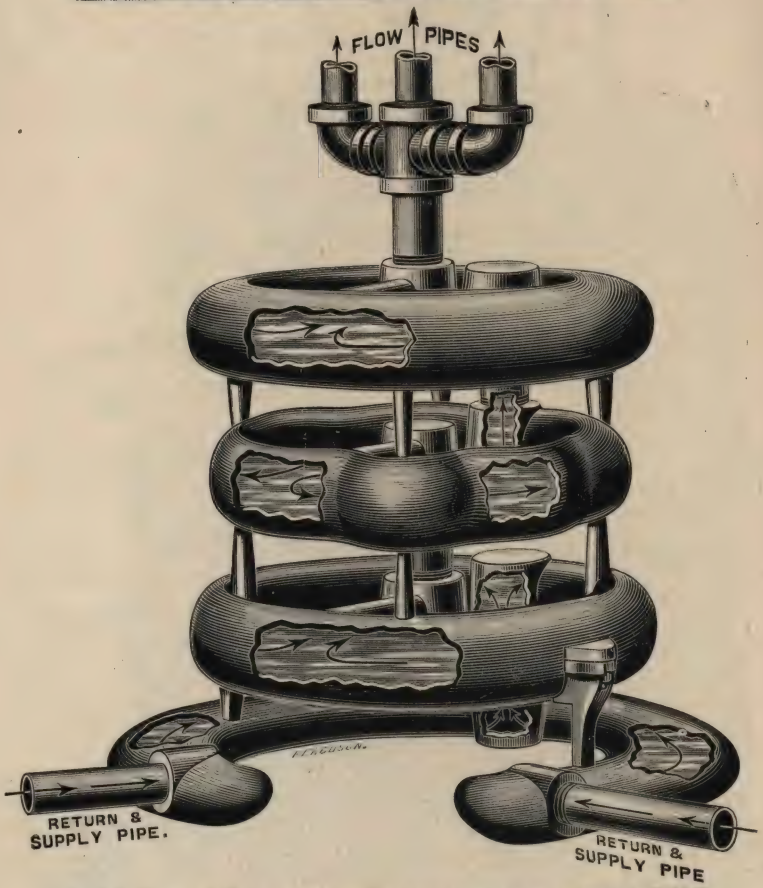
Each section is subjected to a test of eighty pounds to the square inch, and as the only strain they have to bear in actual use is about fifteen pounds to the inch, their safety is beyond question. All are connected by nipple joints and are absolutely free from leakage. The Furnaces represented by cut are perfectly made, heavy, durable and absolutely gas tight, fitted with heavy wrought steel domes thoroughly riveted, cast iron return flue attachment, with triangular grate or our patented slide center shaking grate mounted on friction rollers.



FULLER & WARREN COMPANY COMBINATION WARM AIR AND HOT WATER FURNACE.

THE boiler is adapted for *all styles* of our Furnaces. This cut shows it as arranged in our "B. B." series. The bottom, or "horse shoe" connection, is tapped for two 2-inch return pipes, the other sections are tapped to accommodate 2½-inch flow pipe; can increase to 3-inch flow pipe if necessary.

Send diagram of rooms, designating those to be heated by warm air and those by hot water circulation. We will then advise you as to proper size of Furnace and boiler necessary.



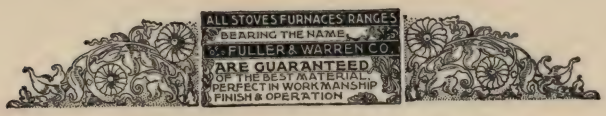
THE FULLER & WARREN COMPANY COMBINATION HOT WATER FURNACE.

AS will be seen by above illustration, the arrangement is not complicated. Its action is positive and sure. Water entering the boiler is compelled to pass entirely around and over the top of fire before reaching cross section through which it flows, and is connected with next section in which same surface must be traversed, and so continuing until reaching the top is distributed by the flow pipe to the different radiators throughout the building, from which it is returned by return pipes entering bottom of boiler, again passing and repassing same surfaces, keeping up a constant circulation so long as any fire remains in the Furnace. The action is positive and constant from the force of the natural law of gravity. Hot water being the lightest it seeks the highest point, and as it cools and becomes heavier falls and returns to the boiler.

The boiler, as above shown with four sections, is particularly adapted for use in our Combination Heaters represented on preceding page, and is capable of doing a great amount of heating. **They can be furnished in one or more sections and fitted to any series of our Furnaces.**

Every inch of surface is direct heating surface.

The third section is so shaped that the heat, after passing around and through the lower sections, impinges directly against its surface, then passes to the upper section, acting against that in the same manner.



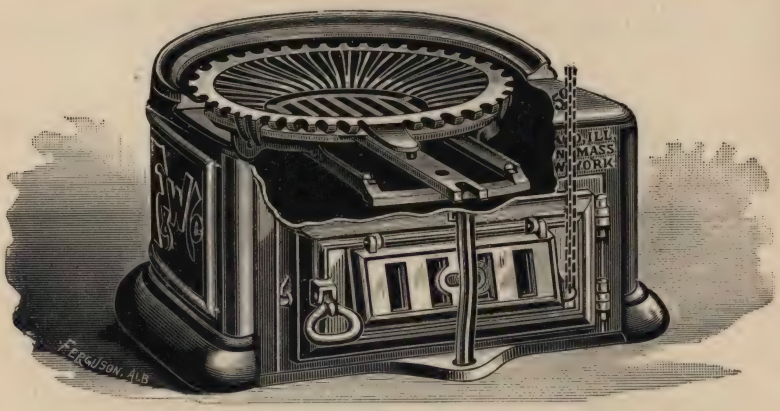
FULLER & WARREN COMPANY

Combination Warm Air and Hot Water Heater.

Dimensions, Capacities and List Prices.	No. 271.	No. 330.	No. 380.	No. 430.
Inside diameter of fire pot	22 inches	24 inches	26 inches	28 inches
Diameter of casing	40 inches	46 inches	51 inches	56 inches
Height to top of steel dome	55¼ inches	58½ inches	61½ inches	64 inches
Heating capacity in cubic feet with warm air	18 to 22,000	20 to 30,000	30 to 40,000	40 to 50,000
Heating capacity in cubic feet with 1-section water boiler	22 to 28,000	24 to 36,000	34 to 46,000	44 to 56,000
Heating capacity in cubic feet with 2-section water boiler	26 to 34,000	28 to 42,000	38 to 52,000	48 to 62,000
Heating capacity in cubic feet with 3-section water boiler	30 to 40,000	32 to 48,000	42 to 58,000	52 to 68,000
Heating capacity in cubic feet with 4-section water boiler	34 to 46,000	36 to 54,000	46 to 64,000	56 to 74,000
List price of portable revertible flue with 1-section water boiler fitted	$162 50	$200 00	$237 50	$275 00
List price of portable revertible flue with 2-section water boiler fitted	177 50	215 00	252 50	290 00
List price of portable revertible flue with 3-section water boiler fitted	192 50	230 00	267 50	305 00
List price of portable revertible flue with 4-section water boiler fitted	207 50	245 00	282 50	320 00
List price of brick revertible flue with 1-section water boiler fitted	175 00	212 50	250 00	287 50
List price of brick revertible flue with 2-section water boiler fitted	190 00	227 50	265 00	302 50
List price of brick revertible flue with 3-section water boiler fitted	205 00	242 50	280 00	317 50
List price of brick revertible flue with 4-section water boiler fitted	220 00	257 50	295 00	332 50
List price less for direct draft	12 50	12 50	12 50	12 50
List price extra for galvanized iron casings	28 00	36 00	42 00	45 00
List price extra for brick covering bars	11 25	11 25	12 50	15 00

FULLER & WARREN COMPANY

ANTI-CLINKER SLIDE CENTER GRATE.

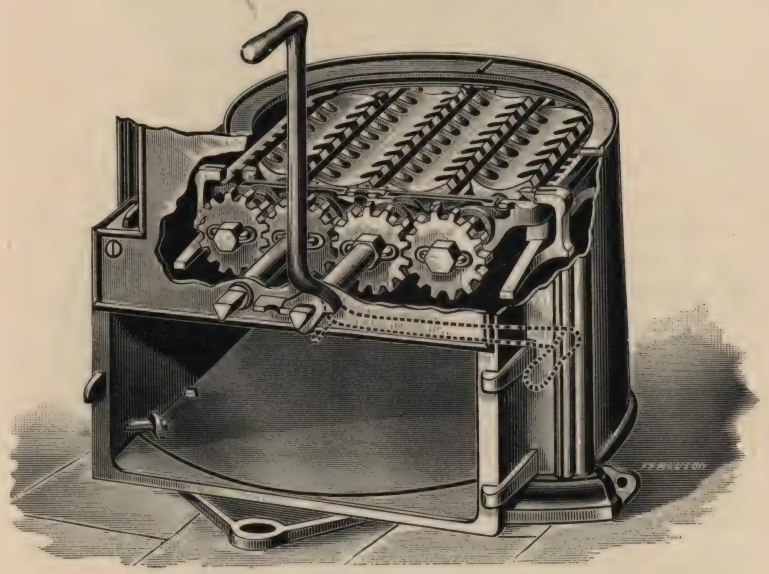


THIS style of grate has been successfully used by us for a number of years past. We adapt it to all of our leading Stoves, Furnaces and Ranges, and consider it perfect in every particular. It is mounted on anti-friction rollers, and by means of our lever shaker can be operated by a child. The construction of this grate is such that the act of shaking causes the clinkers to collect in the center of same, and by drawing out the slide center they are deposited into the ash pit, which is very capacious. The grate is suspended below the fire pot, affording ample space for the insertion of a poker or slicing bar through the "non clinker" door, by means of which the top surface of grate can be thoroughly cleaned. All parts of the grate are made very heavy, which, in connection with the manner in which it is fitted to the boiler, makes it very durable. Should an accident occur which would necessitate renewing any portion of grate, the ash pit front can be easily removed and any portion of grate replaced.

ALL STOVES FURNACES RANGES
BEARING THE NAME
FULLER & WARREN CO.
ARE GUARANTEED
OF THE BEST MATERIAL
PERFECT IN WORKMANSHIP
FINISH & OPERATION

FULLER & WARREN COMPANY

NEW TRIANGULAR GRATE.



IN order to meet the demand from certain sections of the country we have fitted the above style of grate to all styles and sizes of our Furnaces, excepting the Nos. 128, 132 and 136.

These grates are wonderfully easy in operation, a slight motion to the right and left is sufficient to entirely clear top surface of grate of all ashes, which, in connection with the construction of our Furnaces, gives perfect combustion and utilizes all of the heat. They are heavy, well made and so suspended in the ash-pit that, with ordinary care, they will last a great many years. Should repairs become necessary the grate can be easily removed through front of ash-pit and any portion of grate replaced.

FULLER & WARREN COMPANY

HOT WATER HEATER.

THE FULLER & WARREN COMPANY HOT WATER HEATER has every essential point required for *successful operation*, and a series of experiments and tests that we have made have *fully* proven the *superiority* of this Heater *over all others* in its construction, the perfect adaptation of surface for heating requirements, and by the flue arrangement the *rapid* and *positive* circulation of water, and its *durability* and *economy*. It is the only Heater made that can be converted from a hot water Heater to a steam Heater by simply removing the section from which flow pipes are taken and substituting a steam chest. Very severe tests have been made in both steam and hot water heating, and in every instance they have met the unqualified approval of purchasers.

It is the most perfect, simple and effective Heater yet produced.

Every foot of surface above ash pit is direct heating surface, insuring best possible results in economy of fuel and heating power.

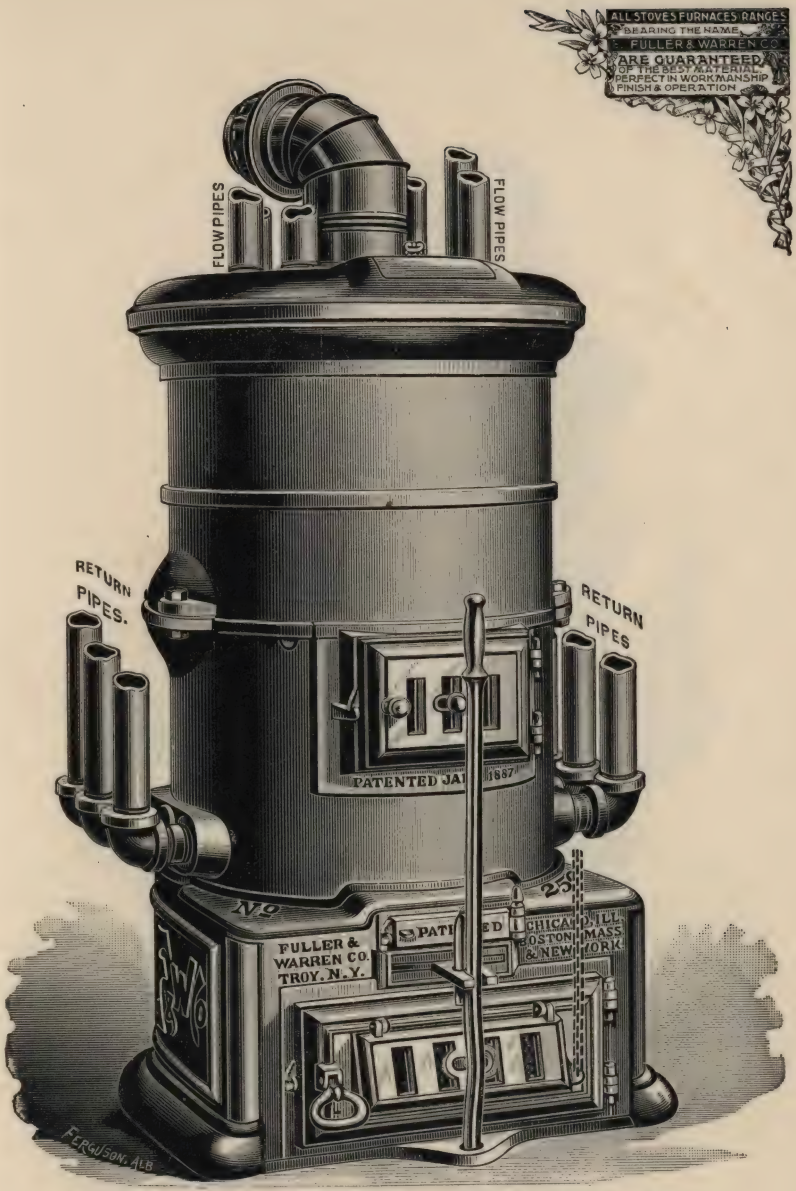
It is absolutely self cleaning.

All sections above the fire pot are connected with nipple joints, the hubs being perfectly planed and fitted, leaving no possibility of leakage by expansion or contraction.

It has the fewest joints possible, a great advantage over all other Heaters. All practical mechanics will appreciate this fact as it greatly facilitates setting and fitting of Heater.

Each section of this Heater is tested under a hydraulic pressure of eighty pounds to the square inch, and the completed Heater is subjected to a further test under steam before leaving our works.

Write for large special circular with complete details.



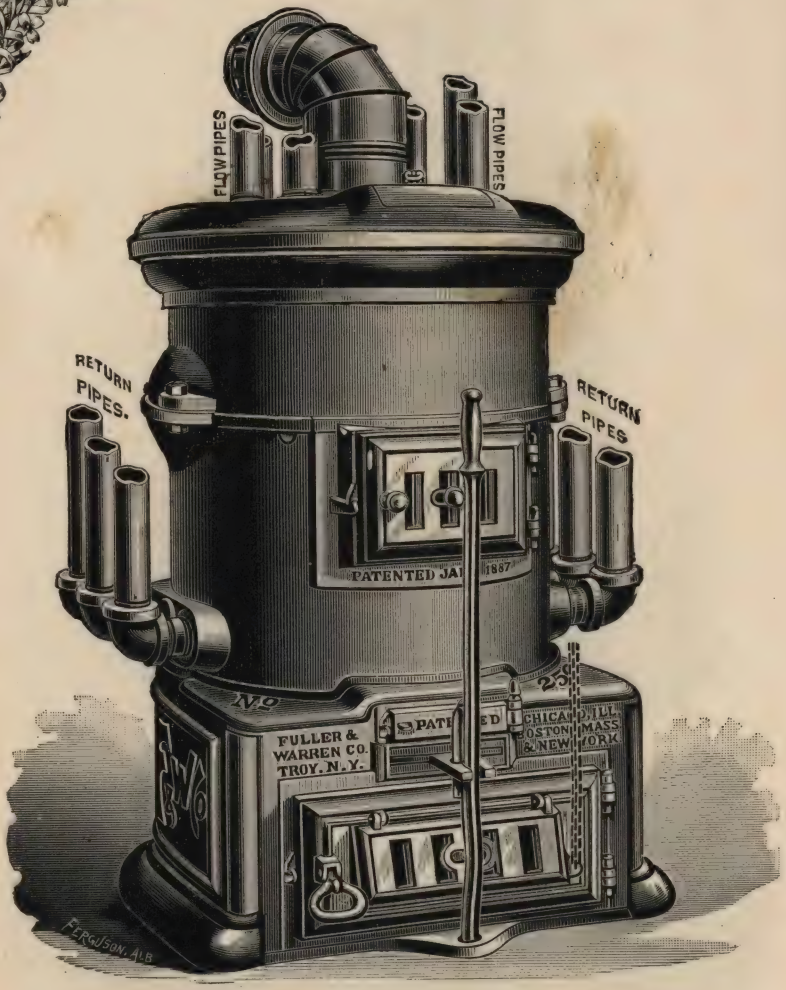
FULLER & WARREN COMPANY

HOT WATER HEATER.

FOR HARD OR SOFT COAL.

Cut showing Nos. 250, 300 and 350 Double Section Hot Water Heater.

See page 31 for list and capacity.



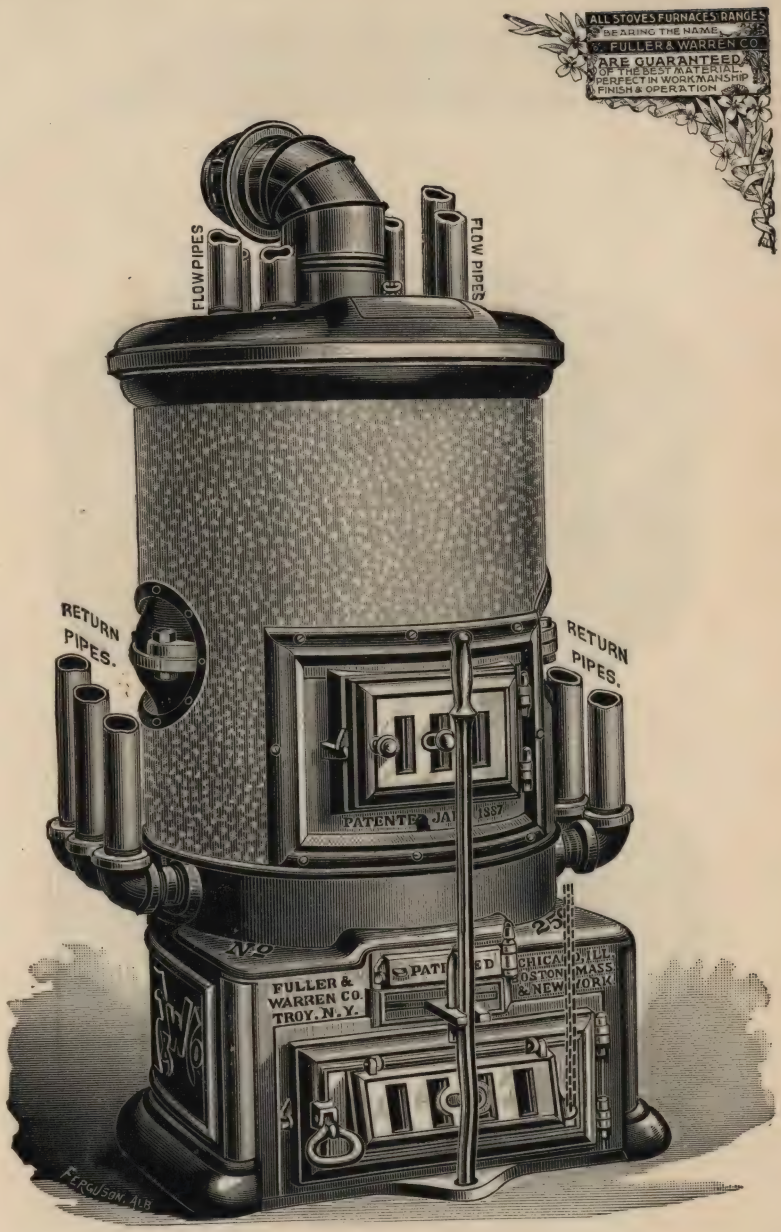
FULLER & WARREN COMPANY

SINGLE SECTION HOT WATER HEATER.

FOR HARD OR SOFT COAL.

Cut showing Nos. 250, 300 and 350 Single Section Hot Water Heater.

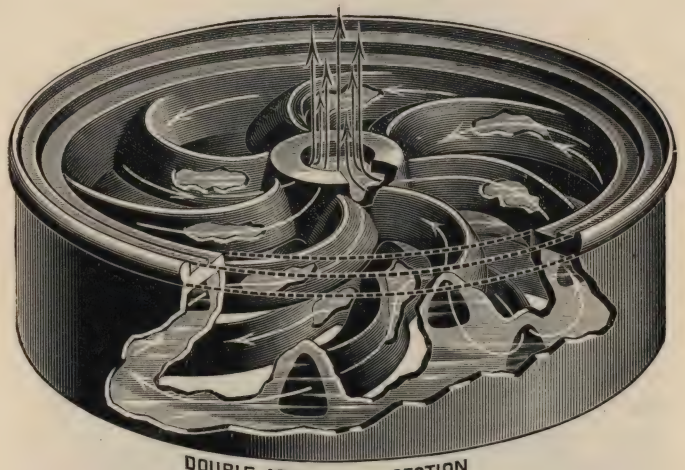
See page 31 for list and capacity.



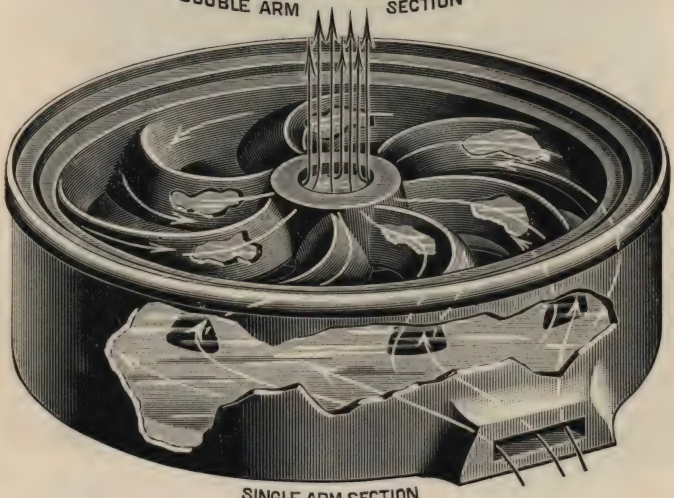
CUT SHOWING NOS. 250, 300 AND 350

Double Section Hot Water Heater with Galvanized Casing.

See page 31 for list and capacity.



DOUBLE ARM SECTION



SINGLE ARM SECTION

Cuts of Arm Sections, Showing Circulation of Water After Leaving Fire-Pot.

These sections are common to both Steam and Hot Water Heaters.

ALL STOVES FURNACES RANGES
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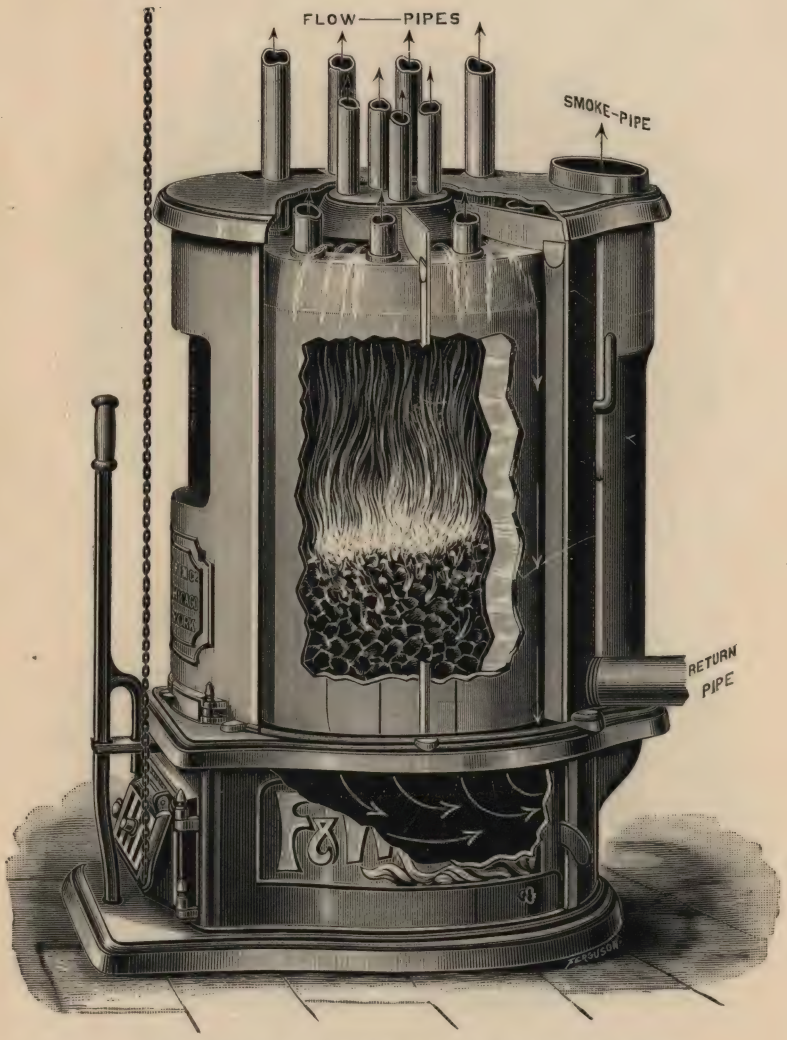
FINISH & OPERATION

FULLER & WARREN COMPANY

HOT WATER HEATER.

FOR HARD OR SOFT COAL.

See page 31 for list and capacity



FULLER & WARREN COMPANY

HOT WATER HEATER.

FOR HARD OR SOFT COAL.

See page 31 for list and capacity.

FULLER & WARREN COMPANY HOT WATER HEATER.

The heating capacities given below for each size of Heater are, of course, for Heaters properly set, piped and provided with a sufficient number of good radiators. When these conditions are complied with and a good quality of fuel is used, the ratings of the Heaters as given are guaranteed.

DIMENSIONS AND CAPACITY.

	SINGLE SECTION BOILER.							DOUBLE SECTION BOILER.					
NUMBER	17	250	300	350	25	30	35	250	300	350	25	30	35
Diameter of body	26½ in.	25 in.	30 in.	35 in.	25 in.	30 in.	35 in.	25 in.	30 in.	35 in.	25 in.	30 in.	35 in.
Inside diameter of fire pot	16 in.	20 in.	24 in.	28 in.	20 in.	24 in.	28 in.	20 in.	24 in.	28 in.	20 in.	24 in.	28 in.
Height of castings to flow pipe connections	45¼ in.	48 in.	48½ in.	51½ in.	48 in.	48½ in.	51½ in.	56½ in.	57½ in.	61½ in.	56½ in.	57 in.	61½ in.
Additional double arm section adds to height								8½ in.	9 in.	10 in.	8½ in.	9 in.	10 in.
Number of openings tapped for flow pipes	6 1¼-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.
Number of openings tapped for return pipes	2 2½-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.
Square feet of direct radiation Heater will supply, including flow and return pipes	350 to 400	450 to 500	650 to 700	850 to 900	450 to 500	650 to 700	850 to 900	600 to 650	850 to 900	1150 to 1200	600 to 650	850 to 900	1150 to 1200
Code word	Gossip.	Mensural.	Mentally.	Mention.	Merged	Merino	Merited.	Mephitic.	Mercury.	Merely.	Example	Exempt.	Exhale.
List price castings, complete.	$187 50	$245 00	$317 50	$425 00	$270 00	$342 50	$450 00	$287 50	$375 00	$500 00	$312 50	$400 00	$525 00
List price for extra double arm section								42 50	57 50	75 00	42 50	57 50	75 00
List price for galvanized iron casings		25 00	25 00	25 00	25 00	25 00	25 00	25 00	25 00	25 00	25 00	25 00	25 00
Size of smoke pipe	7 in.	7 in.	8 in.	8 in.	7 in.	8 in.	8 in.	7 in.	8 in.	8 in.	7 in.	8 in.	8 in.

We always ship double section boilers unless notified to the contrary on order.

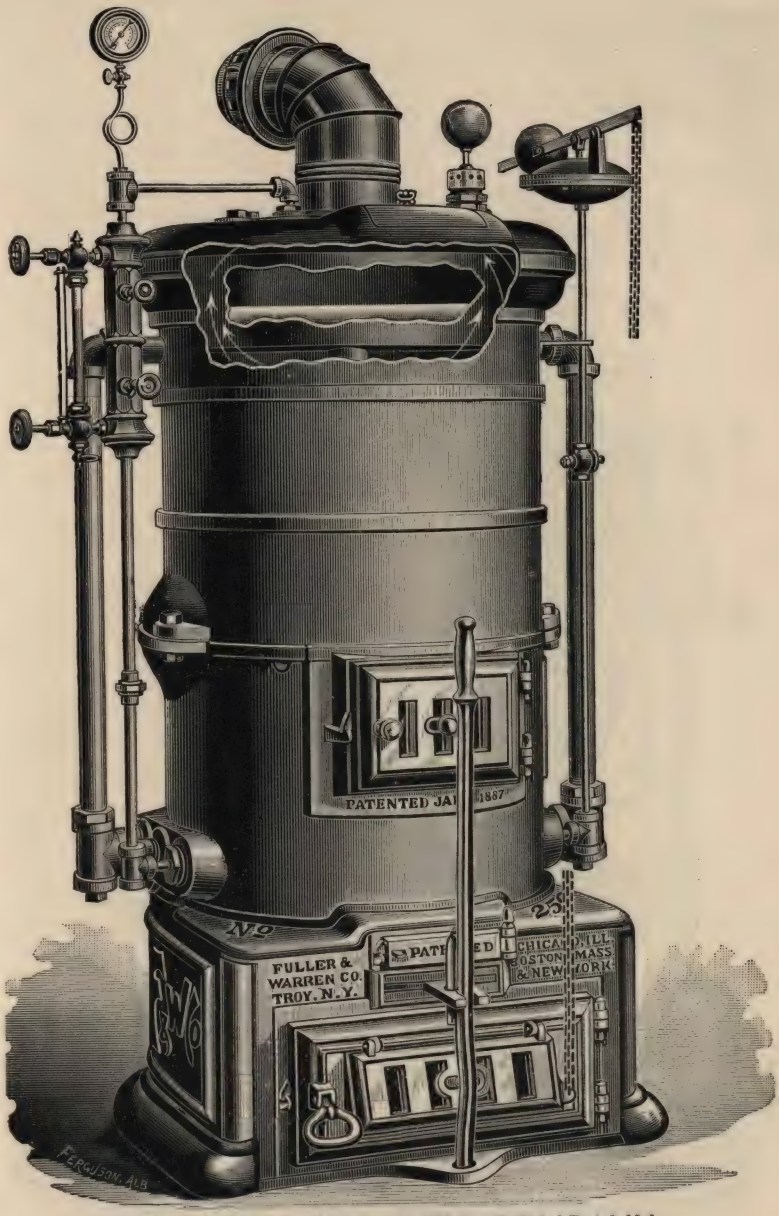
FULLER & WARREN COMPANY

STEAM HEATER.

AS we said in a former portion of this book, every part of a Heater that combines to make it effective for hot water heating is equally effective and essential for steam. Therefore, every important point of our hot water Heater is embodied in our steam Heater, and they are practically the same in construction, the only difference being that the steam Heater is provided with a top dome for the generation of steam.

The F. & W. Co. Steam Heater is perfectly adapted for using either steam or hot water. To use with hot water, all that is necessary is to fill the boiler, pipes and radiators with water; and to change from hot water to steam, the only requirement is to draw off enough water to leave sufficient space in the steam chest for the generation of steam. For those who are not decided as to which system they prefer, this affords a practical method of solving the problem.

Fire pot and flues so arranged that fire can be kept over night in such a manner as to insure an abundance of live steam in the morning.



FULLER & WARREN COMPANY

STEAM HEATER.

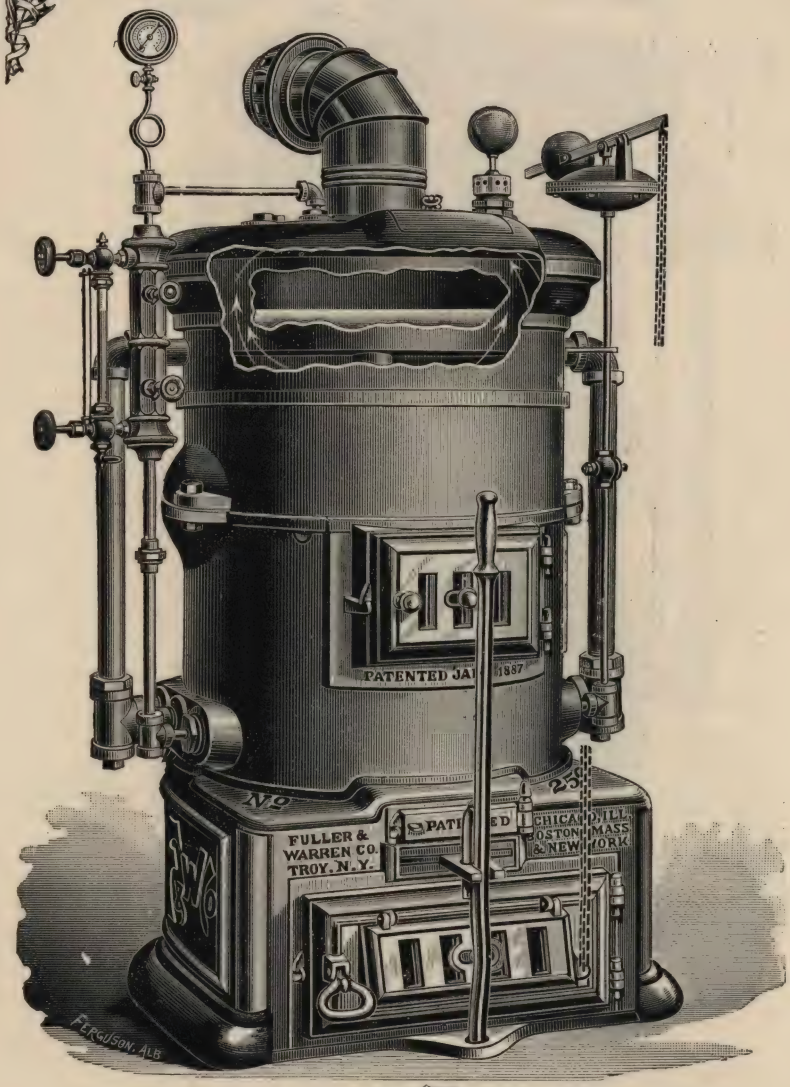
FOR HARD OR SOFT COAL.

Cut shows Nos. 250, 300 and 350 Double Section Steam Heaters.

See page 36 for list and capacity.

Mrs Barr
Louisburgh
PO
250

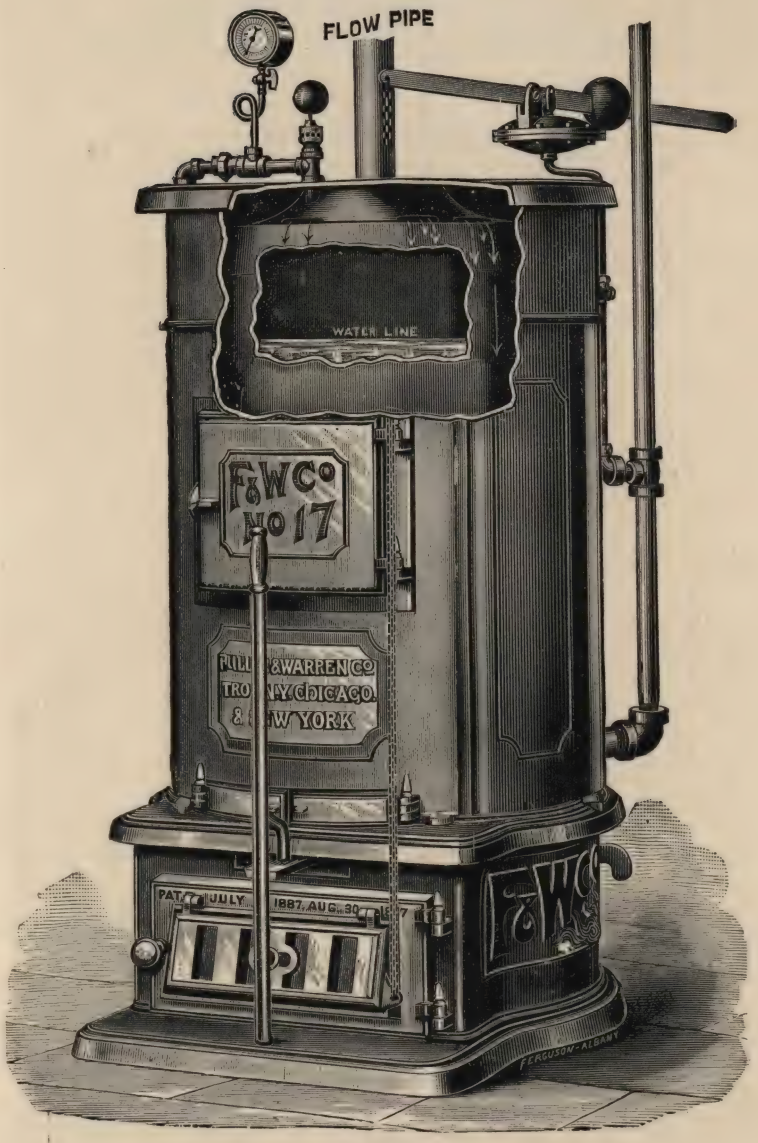
F&W Co. CELEBRATED STOVES FURNACES & RANGES



CUT SHOWING NOS. 250, 300 AND 350

Single Section Steam Heaters.

See page 26 for list and capacity.



FULLER & WARREN COMPANY

STEAM HEATER.

FOR HARD OR SOFT COAL.

See page 36 for list and capacity.

FULLER & WARREN COMPANY STEAM HEATERS.

The heating capacities given below are for Heaters when properly set, piped and supplied with a sufficient number of good radiators. When these conditions are complied with and a good quality of fuel is used, the ratings of the Heaters as given are guaranteed.

DIMENSIONS AND CAPACITY.

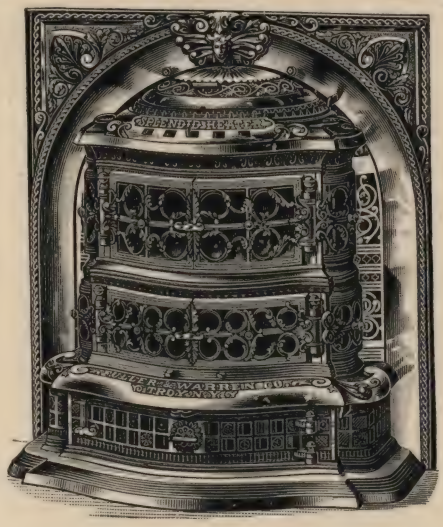
	SINGLE SECTION BOILER.							DOUBLE SECTION BOILER.					
NUMBER	17	250	300	350	25	30	35	250	300	350	25	30	35
Diameter of body	26½ in.	25 in.	30 in.	35 in.	25 in.	30 in.	35 in.	25 in.	30 in.	35 in.	25 in.	30 in.	35 in.
Inside diameter of fire pot	16 in.	20 in.	24 in.	28 in.	20 in.	24 in.	28 in.	20 in.	24 in.	28 in.	20 in.	24 in.	28 in.
Height of castings to flow pipe connections	48½ in.	53½ in.	53 in.	57 in.	53½ in.	53 in.	57 in.	62 in.	62 in.	67 in.	62 in.	62 in.	67 in.
Height from bottom to water line, in inches	41½ in.	46¼ in.	46¾ in.	49½ in.	46¼ in.	46¾ in.	49½ in.	54¾ in.	55¾ in.	59½ in.	54¾ in.	55¾ in.	59½ in.
Additional double arm section adds to height	.....	.....	.....	.....	.....	.....	.....	8½ in.	9 in.	10 in.	8½ in.	9 in.	10 in.
Number of openings tapped for flow pipes	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.
Number of openings tapped for return pipes	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.	6 2-in.
Square feet of direct radiation Heater will supply, including flow and return pipes	175 to 225	200 to 275	300 to 400	500 to 600	200 to 275	300 to 400	500 to 600	300 to 400	500 to 600	800 to 900	300 to 400	500 to 600	800 to 900
Code word	Gothic.	Merlin.	Mermaid.	Merriest.	Meteor.	Method.	Methought	Mesmerism	Metallic.	Metaphor.	Expert.	Explicit.	Exploit.
List price castings, complete, (less trimmings)	$200 00	$270 00	$342 50	$450 00	$295 00	$367 50	$475 00	$312 50	$400 00	$525 00	$337 50	$425 00	$550 00
List price for extra double arm section	.....	.....	.....	.....	.....	.....	.....	42 50	57 50	75 00	42 50	57 50	75 00
List price extra for boiler (trimmed)	36 00	36 00	36 00	36 00	36 00	36 00	36 00	36 00	36 00	36 00	36 00	36 00	36 00
List price for galvanized iron casings	.....	25 00	25 00	25 00	25 00	25 00	25 00	25 00	25 00	25 00	25 00	25 00	25 00

We always ship double section boilers unless notified to the contrary on order.

ALL STOVES FURNACES RANGES
BEARING THE NAME
FULLER & WARREN CO.
ARE GUARANTEED
OF THE BEST MATERIAL
PERFECT IN WORKMANSHIP
FINISH & OPERATION

THE SPLENDID

Self-feeding Fire-place Heater.



FOR HARD COAL.

	Code Word.	Price.
No. 18. Heater with casing	Exact.....	$60 00

THIS Heater warms the room it stands in equally well as one or two above. It has sufficient capacity for warming three rooms, when they are situated so proper connections can be made. It is usually placed in a dining-room, and, in addition to heating the room it stands in, can be connected with the room directly above, and, if desired, a chamber above that; is also very convenient for libraries or other rooms where open grates are ordinarily used. This Heater is very ornamental in design, and so compactly built that it can be set in almost any fire-place, and occupies practically no space in the room. Directions for setting, operating, etc., furnished on application. Arranged to set in fire-place requiring opening 14½ inches deep, 28 inches wide, and 31 inches high. The border forming finish to mantel is 32 inches wide, and 34 inches high. Three patterns of border to fit different mantels.

FULLER & WARREN CO. FURNACE.	Designating number.	Diameter of Fire Pot inside at top.	Height of Castings.	Diameter of Casings.	For Brick Setting.			* Estimated.		† Recommended size for Cold Air Supply Pipe.
					Extreme width of Brick Casings in front.	Extreme length of Brick Casings front to rear.	Number of brick required.	Heating capacity in cubic feet.	Number of rooms 12 x 14 that can be heated.	
Portable form	225	22 in.	54½ in.	40¼ in.	.....	.....	.....	20 to 24,000	5 to 7	300 sq. in.
" "	245	24 "	55½ "	44½ "	.....	.....	.....	26 " 30,000	7 " 9	350 "
" "	265	26 "	57½ "	48¼ "	.....	.....	.....	32 " 38,000	9 " 11	450 "
" "	285	28 "	59½ "	54½ "	.....	.....	.....	45 " 55,000	12 " 15	550 "
" "	300	30 "	63 "	65¼ "	.....	.....	.....	60 " 100,000	12 " 18	650 "
" "	350	35 "	63 "	65¼ "	.....	.....	.....	75 " 125,000	15 " 20	700 "
Brick "	220	22 "	54½ "	.....	64 in.	52 in.	1,000	18 " 22,000	4 " 6	300 "
" "	240	24 "	55½ "	.....	64 "	54 "	1,200	24 " 28,000	6 " 8	350 "
" "	260	26 "	57½ "	.....	68 "	56 "	1,350	30 " 36,000	8 " 10	450 "
" "	280	28 "	59½ "	.....	70 "	60 "	1,450	40 " 50,000	10 " 12	550 "
" "	300	30 "	63 "	.....	76 "	76 "	1,800	60 " 100,000	12 " 18	650 "
" "	350	35 "	63 "	.....	80 "	78 "	1,850	75 " 125,000	15 " 20	700 "
Port. form with cast radiator	405	22 "	52¼ "	40 in.	.....	.....	.....	18 " 22,000	4 " 6	300 "
" " "	465	24 "	54¼ "	46 "	.....	.....	.....	24 " 28,000	6 " 8	350 "
" " "	515	26 "	56 "	51 "	.....	.....	.....	30 " 36,000	8 " 10	450 "
" " "	565	28 "	59½ "	56 "	.....	.....	.....	40 " 50,000	10 " 12	550 "
" with steel "	405	22 "	54½ "	40 "	.....	.....	.....	20 " 24,000	5 " 7	300 "
" " "	465	24 "	56 "	46 "	.....	.....	.....	26 " 30,000	7 " 9	350 "
" " "	515	26 "	58 "	51 "	.....	.....	.....	32 " 38,000	9 " 11	450 "
" " "	565	28 "	63 "	56 "	.....	.....	.....	45 " 55,000	12 " 15	550 "
Brick form with cast "	365	22 "	52¼ "	.....	60 in.	48 in.	900	18 " 22,000	4 " 6	300 "
" " "	425	24 "	54¼ "	.....	64 "	52 "	1,000	24 " 28,000	6 " 8	350 "
" " "	475	26 "	56 "	.....	68 "	56 "	1,200	30 " 36,000	8 " 10	450 "
" " "	525	28 "	59½ "	.....	72 "	64 "	1,450	40 " 50,000	10 " 12	550 "
" with steel "	365	22 "	54½ "	.....	60 "	48 "	900	20 " 24,000	5 " 7	300 "

Brick form with steel radiator.	425	24 in.	56 in.	.....	64 in.	52 in.	1,000	26 to 30,000	7 to 9	350 sq. in.
" " " " ..	475	26 "	58 "	.....	68 "	56 "	1,200	32 " 38,000	9 " 11	450 "
" " " " ..	525	28 "	63 "	.....	72 "	64 "	1,450	45 " 55,000	12 " 15	550 "
Portable form.....	128	18 "	‡49 "	28 in.	.....	.....	.....	14 " 18,000	4 " 5	200 "
" "	132	20 "	52 "	32 "	.....	.....	.....	15 " 20,000	4 " 6	250 "
" "	136	22 "	53 "	36 "	.....	.....	.....	18 " 22,000	4 " 6	300 "
" "	140	24 "	55 "	40 "	.....	.....	.....	20 " 24,000	5 " 8	350 "
Brick "	136	22 "	53 "	.....	60 in.	50 in.	900	18 " 22,000	4 " 6	300 "
" "	140	24 "	55 "	.....	64 "	52 "	1,000	20 " 24,000	5 " 8	350 "
Portable "	271	22 "	55¼ "	40 in.	.....	.....	.....	18 " 22,000	4 " 6	300 "
" "	330	24 "	58½ "	46 "	.....	.....	.....	24 " 28,000	6 " 8	350 "
" "	380	26 "	61½ "	51 "	.....	.....	.....	30 " 36,000	8 " 10	450 "
" "	430	28 "	64 "	56 "	.....	.....	.....	40 " 50,000	10 " 12	550 "
Brick "	227	22 "	55¼ "	.....	56 in.	46 in.	850	18 " 22,000	4 " 6	300 "
" "	233	24 "	58½ "	.....	60 "	50 "	1,000	24 " 28,000	6 " 8	350 "
" "	238	26 "	61½ "	.....	64 "	54 "	1,200	30 " 36,000	8 " 10	450 "
" "	243	28 "	64 "	.....	68 "	60 "	1,300	40 " 50,000	10 " 12	550 "
School Heater.....	128	18 "	‡53 "	28 in.	.....	.....	.....	16 " 20,000	.....	.....
" "	132	20 "	56 "	32 "	.....	.....	.....	18 " 22,000	.....	.....
" "	136	22 "	57 "	36 "	.....	.....	.....	20 " 24,000	.....	.....
" "	140	24 "	59 "	40 "	.....	.....	.....	24 " 30,000	.....	.....

* These are based upon *estimated* capacity. Actual capacity can not be correctly given, owing to the many and varied conditions under which a Furnace may be placed.

† The capacity of cold air supply pipe must, of course, vary and bear its proper proportion to the number and size of warm air pipes taken from the Furnace. Capacity of cold air supply pipe should equal three-fourths of total capacity of warm air pipes taken from the Furnace, and in every case should have slide or damper to permit control of supply of air according to wind and weather.

‡ The height of Furnace of the C Series and of the School Heater may be varied by construction of radiator to meet requirements.

F&W Co. CELEBRATED STOVES FURNACES & RANGES

FULLER & WARREN COMPANY

FRANKLIN FIRE-PLACE HEATER.

WE furnish this Heater with plain cast iron, nickel plated or black japanned borders. The dome, rails and knobs are nickeled on all styles.

No.	Code Words. Cast Linings.	Brick Linings.	Price.
14. With round frame and dust flue	Ford	Fortress	$39 50
14. With square frame and dust flue	Forge	Fortune	39 50
14. With French frame and dust flue	Fork	Forum	39 50
Cast linings, extra	Force	Force	1 00
For natural gas, deduct			1 00

Smallest space for setting: 28½ inches high, 20 inches wide and 13½ inches deep. Height from floor to top of frame, 33 inches; width of frame, 31 inches.

The Franklin Fire-Place Heater, like the Franklin Stove, is most beautifully designed and ornamented with nickel and art tile, and has our draw center, anti-clinker grate, solid round fire pot, which can be easily removed through the front sliding doors (expansion by heat being amply allowed for), heavy cast iron or brick linings above fire pot, with heat deflecting plate over all. It is mounted with extra heavy sheet steel back, and is made with either round, square or French frames, as desired.

TEAR THIS OUT.

Should you desire an estimate upon **Fuller & Warren Co.** heating apparatus, please fill out this blank form and return same to us. Upon receipt of it, we shall take pleasure in furnishing you all desired information relative to size of apparatus required, proper location of same, size and number of pipes, registers, etc., necessary, and probable cost of same complete.

Yours respectfully,

FULLER & WARREN CO.

Of what is the building constructed, wood, brick or stone?.....

.....

What is the size of building, outside measure?.....feet long, by.....feet wide,

With.....wing.....feet long, by.....feet wide.....

Height of each story? 1st,.....2d,.....3d,.....

Height of cellar?.....

Does the cellar extend under the whole house?.....

If necessary, would there be any objections to digging a pit in which to set the furnace?

.....

Does the building stand alone or in a block?.....

What is the inside arrangement of the building? Please make a rough diagram in the ruled spaces on the other side of this sheet, giving shape of building and size of rooms and hall, to be heated. Indicate where the chimneys are located, and grates, if there are any, also closets and any recess through which, if desired, pipes could be run to supply registers on the second floor. Designate where it is preferred to locate registers, bearing in mind that the proper place for the furnace to stand is as near the center of registers on first floor as possible, and that short, straight and elevated pipes will give the best results; also that in most cases the register in the lower hall will afford sufficient heat for warming the sleeping apartments on the second floor. If Steam or Hot Water Heater is desired, we would like to have position and size of windows marked on drawing.

For a public building or church, locate entrances, vestibules, aisles, and ventilating ducts, if any, together with the different rooms and chimneys as above. Also please state whether there is space under the church pews for the circulation of air?.....

Give name in full,.....

No. of street,.....

Post Office address,.....

County,.....

State,.....

(OVER)

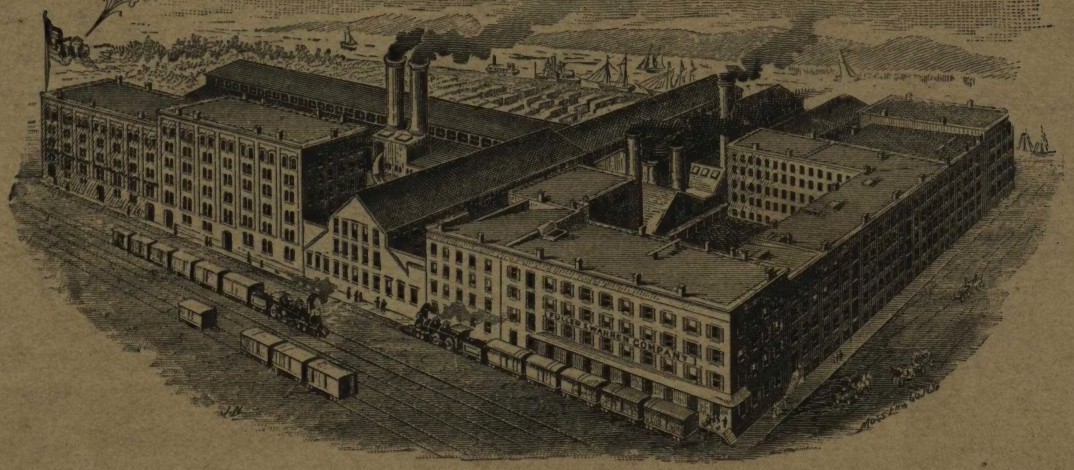
1st FLOOR.

2d FLOOR.

For a church or other public building.
Points of compass.
Dimensions.
Make diagram showing aisles and pews.
Locate doors, vestibules and windows.
Give size of windows.
Locate chimneys and ventilators.

ADDRESS FULLER & WARREN COMPANY,
TROY, N. Y., CHICAGO, ILL., MILWAUKEE, WIS., NEW YORK.

Fuller and Warren Company



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